

MITRE

30 October 1990
W143-L-124

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[redacted]
Chief of Printing and Photography Group (P&PG)
P.O. Box 75032
Main Post Office
Washington, D.C. 20013

Subject: Pre-Press Modernization Team Participation

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Dear [redacted]

On 29 August 1990, The MITRE Corporation was given a briefing and tour of your facility by several people from your organization [redacted]

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We were invited to participate in this P&PG overview by our DI sponsor from the Office of Leadership Analysis (LDA) [redacted] [redacted] The purpose of this meeting was to coordinate with P&PG on the photographic database work that we were performing for LDA. We wanted to ensure that we were assisting LDA with their photographic requirements, while considering the present and future direction of interfacing organizations, such as P&PG.

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One of the many items of interest that we learned about on this tour was the existence and goals of the Pre-Press Modernization Team. Although we received only a quick overview of this team, much of what we heard seemed to include and parallel work we have done and are doing for the Agency. The purpose of this letter is to inform you of our interest in acquiring more information on the Pre-Press Modernization Team and to work with you and P&PG to see if there are contributions that MITRE can make to this team that are a match for our systems engineering background and that are appropriate to our not-for-profit corporate status.

I have enclosed a short description of The MITRE Corporation and our facilities. This is followed by a short summary of recent selected work we have done for your Agency that may be of interest to you and the Pre-Press Modernization Team. The names of the cognizant COTRs will be provided if you would like more information on the work we have performed.

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Please feel free to call me at (703) 883-5351 for additional information. We have several laboratories at the MITRE facility in McLean, Virginia that you and your staff are welcome to visit for demonstrations of the work we have performed. Thank you for your time.

Sincerely,

Elaine Mattair

Elaine Mattair
Project Leader, W143
Special Projects Department

EM/cm

Enclosures (2)

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bcc: G. L. Hollis
W. A. Ruh
M. P. Corrigan

Project Files W143

The MITRE Corporation

The MITRE Corporation has over 30 years of experience in information management and distribution, telecommunications technology, and related systems and procedures. MITRE was created in 1958 as a not-for-profit corporation chartered to do work solely in the public interest. Since then, it has been conceiving, planning, developing, engineering, implementing, and evaluating large-scale systems.

MITRE-- a problem solving organization serving as a unique planning, engineering, and advisory resource-- is neither a part of industry nor a part of government. We operate between these two spheres, free of the pressure to show a profit. We focus our resources on solving problems that are either too complex or ill defined to be profitable propositions for industry, or are too pervasive for government laboratories. By its nature, MITRE acts solely in the interest of its government sponsors, giving them the information they need to make effective decisions.

MITRE does not bid in competition with profit making companies; its projects are normally assigned on a single-source basis. MITRE ordinarily works in a close relationship with its government sponsors. Since MITRE has no ties to any organization and does not engage in manufacturing of any kind other than prototypes of proof-of-concepts, it is free from potential conflicts of interest arising from privileged access to sensitive or proprietary information. It is also free of bias concerning development of program material.

The MITRE Corporation has an established Special Security Office staffed by personnel who are experienced and totally familiar with the requirements for handling special security programs. There are several Sensitive Compartmented Information Facilities (SCIFs), including conference rooms, a printing operation, and computer and laboratory facilities. SCI operations are inspected by representatives of all sponsor activities on a recurring basis and continue to receive outstanding security posture reports.

SUMMARY OF SELECTED MITRE SYSTEM ENGINEERING WORK

During the last two years, we have worked on a number of projects for the Agency. The focus of this work has been on Automated Data Processing (ADP) strategic planning, requirements analysis and architecture definition through the use of rapid prototyping techniques, technology assessment and COTS integration. Most of the work has involved the identification, presentation, manipulation, control and communication of multimedia documents (e.g., text, photographs, maps, other imagery, video, and audio). The sponsor organization (if unclassified), project name and a short project description follows.

<u>Sponsor Organization</u>	<u>Project Name</u>	<u>Description</u>
CPAS	EDS (Electronic Dissemination System)	MITRE developed a prototype of a proposed Electronic Dissemination System (EDS), a softcopy workstation for intelligence dissemination and presentation, for the CPAS office of the sponsor's agency. The EDS prototype demonstrated the capability of displaying very high quality imagery, graphics and video in addition to soft copy textual documents rendered with the quality and appearance of the original hardcopy document. This project also served as a testbed for the beta-testing of products designed to integrate live video broadcasts into a window on a workstation screen.
Classified	MAY	MITRE developed a prototype of an information system for a government client. The prototype was used to assist the government in defining requirements for a future version of its Information Processing Systems (IPS), or possible enhancements to the existing system. The IPS prototype demonstrated concepts for the access and inclusion of multimedia intelligence material in outgoing cables, reports, and finished intelligence products. The softcopy intelligence material used in this prototype consisted of text augmented with full color maps, imagery, voice, and video. In addition, MITRE developed a five year strategic ADP plan. In FY91 we are implementing the first phase of the ADP plan to include requirements surveys, network architecture design, COTS recommendations and transition plans.

<u>Sponsor Organization</u>	<u>Project Name</u>	<u>Description</u>
OIA	OIA	MITRE has been the systems engineer for defining the architecture for the Office of Imagery Analysis (OIA). OIA has been enhancing and expanding its existing network of workstations in order to increase their processing capabilities such as word processing, spreadsheets, desktop publishing, and image processing. MITRE assisted in enhancing OIA access to sponsor information systems at Headquarters, such as SAFE and VM.
NPIC	Various Names	During the past seven years, MITRE has provided support to the Development Programs Group (DPG) of the National Photographic Interpretation Center (NPIC). This work has included technical studies involving all segments of the Improved NPIC Systems (INS) and several of the tenant organizations within Building 213. During FY90 MITRE supported DPG in its development of the NIS architecture for the 1995 time frame. This architecture has been approved by the center and incorporated into the center's strategic ADP Plan. MITRE has also worked with NPIC's National Exploitation Laboratory in evaluating several aspects of imagery exploitation including the evaluation of work in the research and development community, and the specification of requirements for softcopy workstation evolution capability.
	DOSSPRO (Dossier Prototype)	The DOSSPRO project concentrates on an interactive system for storing and retrieving biographical textual intelligence data and indexes to pictorial data. MITRE is currently supporting the project in the integration of commercial and government software components, along with prototyping in the areas of user-interface design, message parsing and interactive data extraction tools, and the customization of tools for specific problems. Requirements for the DOSSPRO systems include a windowed environment with consistent resource access methods, an integrated applications environment with cut and paste capability, the display of text, graphics and color imagery, and user configurable system defaults.

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LDA

*User interface to tie
together all the different
LDA sources*

<u>Sponsor Organization</u>	<u>Project Name</u>	<u>Description</u>
OIR	SRFS (Strategic Rocket Forces Systems)	The goal of this project is to develop a prototype intelligence analyst's workstation for DI/OIR. The design philosophy of the SRFS prototype is predicated on the extensive use of Commercial-off-the-Shelf (COTS) software components under a MITRE developed user shell. The shell, which provides a consistent user interface to accession all SRFS tools, is written in the object-oriented programming language Smalltalk. This makes the operation of the workstation "turn-key" and shields the user from being forced to learn the details of the underlying operating system. Using the shell, the user can configure the workstation to accommodate multiple workgroups of analysts working simultaneously on multiple intelligence analysis projects, using all or a customized subset of the available tools.
DS&T, ORD, OS	Strategic Planning	MITRE has performed strategic and near-term automated data processing (ADP) planning support for DS&T and ORD. MITRE developed an information security strategic five year plan for OS.

*Design for layout of office
and calling for WDA.*

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